

10/552582

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

: **1005 Rec'd PCT/PTO 12 OCT 2005**

Tomohiro IWASAKI et al.

: **Mail Stop: PCT**

Serial No. NEW

: Attorney Docket No. 2005_1606A

Filed October 12, 2005

:

ACOUSTIC MIRROR TYPE THIN FILM BULK
ACOUSTIC RESONATOR, AND FILTER,
DUPLEXER AND COMMUNICATION
APPARATUS COMPRISING THE SAME
[Corresponding to PCT/JP2005/006810
Filed March 31, 2005]

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☒ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application
PCT/_____; and/or
- ☐ each reference previously cited in prior parent application Serial No.
_____.

1a. ☒ This Information Disclosure Statement is submitted:

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within three months of the filing date (or of entry into the National Stage) of the above-entitled application, **or**

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification

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after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:

- a. ☐ a full or partial English language translation submitted herewith,
- b. ☒ the International Search Report (in the English language) submitted herewith,
- c. ☒ the concise explanation contained in the specification of the present application at page 4,
- d. ☒ the concise explanation set forth in the attached English language abstract,
- e. ☒ the concise explanation set forth below or on a separate sheet attached to the reference:

JP 6-295181 corresponds to U.S. 5,373,268;
JP 2002-041052 corresponds to U.S. 6,603,241; and
JP 09-199978 corresponds to U.S. 5,646,583.

5. ☐ A foreign patent office search report citing one or more of the references is enclosed.

Respectfully submitted,

Tomohiro IWASAKI et al.

By 

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October 12, 2005

INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: October 12, 2005

ATTY DOCKET NO.
2005_1606AAPPLICANT
Tomohiro IWASAKI et al.FILING DATE
October 12, 2005

GROUP

SERIAL NO.
NEW

PTO 12 OCT 2005

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,864,261	1/1999	Weber			
	AB	5,714,917	2/1998	Ella			
	AC	5,373,268	12/1994	Dworsky et al.			
	AD	6,603,241	8/2003	Barber et al.			
	AE	5,646,583	7/1997	Seabury et al.			
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AG	101 24 349	12/2002	DE				
	AH	2004-235886	8/2004	JP			Abstract	
	AI	9 199978	7/1997	JP				
	AJ	6-295181	10/1994	JP				
	AK	2002-41052	2/2002	JP				
	AL							
	AM							
	AN							

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	B. L. OLUTADE et al., "Sensitivity Analysis of a Thin Film Bulk Acoustic Resonator Ladder Filter", FREQUENCY CONTROL SYMPOSIUM, 1997, PROCEEDINGS OF THE 1997 IEEE INTERNATIONAL, Orlando, FL, USA May 28-30, 1997, NY,NY, USA, IEEE, US, May 28, 1997, pp. 737-742
	AP	
	AQ	

EXAMINER

DATE CONSIDERED